

Appl. No. 10/043,438
Amdt. Dated June 15, 2005
Reply to Office action of March 15, 2005
Attorney Docket No. P14972-US1
EUS/J/P/06-3139

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-24. (Canceled)

25. (Currently Amended) A method of initiating a connection to a multi-mode mobile telecommunication device, wherein the multi-mode telecommunication device is adapted to operate on two or more radio frequencies or two or more mobile telecommunication access networks, comprising the step of

sending a paging message to the mobile telecommunication device from a core network, the paging message specifying a preferred mobile telecommunication access network for the connection.

26. (Previously Presented) The method of claim 25, additionally comprising the step of

returning a paging response signal from the mobile telecommunication device to the core network over the preferred mobile access network, and subsequently setting up the connection over the preferred mobile telecommunication access network.

27. (Currently Amended) The method of claim 25, additionally comprising the step of

returning a paging response signal from the mobile telecommunication device to the core network over a mobile telecommunication access network to which the device is currently monitoring, and subsequently setting up the connection over the preferred mobile telecommunication access network.

28. (Previously Presented) The method of claim 25, wherein the step of sending a paging signal to the mobile telecommunication device comprises the step of

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transmitting a paging signal specifying the preferred mobile telecommunication access network for the connection over each of a plurality of networks to which the device may monitor.

29. (Previously Presented) The method of claim 25, wherein the connection is one of a facsimile connection, data connection, or multi-media connection.

30. (Previously Presented) The method of claim 25, wherein the preferred mobile telecommunication access network for the connection is one of a GSM access network and a UMTS access network.

31. (Currently Amended) A paging control system for a multi-mode mobile telecommunication device, wherein the multi-mode telecommunication device is adapted to operate on two or more radio frequencies or two or more mobile telecommunication access networks, the system comprising:

input means for receiving a connection setup message corresponding to a new connection for the multi-mode mobile telecommunication device; and

means for determining from the connection setup message whether there is a preferred mobile telecommunication access network for the connection.

32. (Currently Amended) The paging control system of claim 31, additionally comprising

transmission means for causing the transmission of a paging message corresponding to the connection setup message over respective paging channels of two or more mobile telecommunication access networks serving the multi-mode mobile telecommunication device, the paging message containing an indication of [[a]] the preferred mobile telecommunication access network for the connection.

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33. (Previously Presented) The paging control system of claim 31, wherein the system is located in a Mobile Switching Center of a core network serving a plurality of access networks.

34- 37. (Canceled)

38. (Currently Amended) A multi-mode mobile telecommunication device, wherein the multi-mode telecommunication device is adapted to operate on two or more radio frequencies or two or more mobile telecommunication access networks comprising:

means for receiving a paging message initiating a connection, the paging message containing an indication of a preferred mobile telecommunication access network for the connection;

means for determining the preferred mobile telecommunication access network from the paging message; and

means for transmitting a paging response signal over the preferred mobile telecommunication access network.

39. (Currently Amended) A method of setting up a connection to a multi-mode mobile telecommunication device, wherein the multi-mode telecommunication device is adapted to operate on two or more radio frequencies or two or more mobile telecommunication access networks, the method comprising the steps of

sending a paging request from a core network to the device via at least one telecommunication access network;

receiving at the core network a paging response from the device via [[an]] a telecommunication access network to whose paging channel(s) the device is currently monitoring;

determining whether the monitored telecommunication ~~that~~ access network can support the connection; and

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if it is determined that the access network to which the device is monitoring cannot support the connection, establishing a communication channel to the mobile telecommunication device over a second mobile telecommunication access network that can support the connection.

40. (Currently Amended) A method of completing an incoming or outgoing call to a multi-mode mobile telecommunication device, wherein the multi-mode telecommunication device is adapted to operate on two or more radio frequencies or two or more mobile telecommunication access networks, when a pre-existing call is connected to the mobile telecommunication device, the method comprising the step of determining whether the mobile telecommunication access network over which the pre-existing call is established can support the new call.

41. (Currently Amended) The method of claim 40, additionally comprising the step of

if it is determined that the mobile telecommunication access network over which the pre-existing connection is established cannot support the new connection, transferring the pre-existing connection to a second mobile telecommunication access network that can support the new connection, and establishing the new connection over the second mobile telecommunication access network.

42. (Currently Amended) A method of handling a connection to a multi-mode mobile telecommunication device, wherein the multi-mode telecommunication device is adapted to operate on two or more radio frequencies or two or more mobile telecommunication access networks, the method comprising the steps of

setting up the connection over a first mobile telecommunication access network that can support the connection;

determining whether a second mobile telecommunication access network can support the connection; and

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If it is determined that the second mobile telecommunication access network cannot support the connection, inhibiting handover of the connection to the second mobile telecommunication access network.

43. (Previously Presented) The method of claim 42, wherein said step of inhibiting a potential handover of the connection to the second mobile telecommunication access network is initiated by a MSC/SGSN, which sends a blocking signal to the RNC/BSC of the current access network

44 -46. (Canceled)

47. (Currently Amended) A method of initiating a connection from a telecommunication system to one of a set of two or more communication devices, wherein each of one of the set of two or more communication devices is adapted to operate on two or more radio frequencies or two or more mobile telecommunication access networks the method comprising the step of

sending a paging message to at least one of the set of devices from a core network of the system, the paging message specifying a preferred mobile telecommunication access network for the connection.

48. (Currently Amended) A method of establishing a connection to a device via a specific one of a plurality of domains defined in a mobile telecommunication system, wherein the device is adapted to operate on two or more radio frequencies or two or more mobile telecommunication access networks, comprising the step of

sending paging messages via one or both of the other domains, the paging messages identifying the preferred domain.